Welding AAS Degree - 60 credits

Program Area: Integrated Manufacturing Welding (Fall 2025)

*****REMEMBER TO REGISTER EARLY*****

Program Description

The Welding AAS Degree is a two-year program designed to provide an advanced career pathway in manufacturing, specific to the field of Welding Technology. This 60 credit AAS is designed to prepare the student for employment as an intermediate welding or fabrication technologist. It is also a pathway for manufacturing related 4-year degrees. This program allows students to gain the information and to develop skills used in the welding industry. This program covers GMAW, GTAW, FCAW, SMAW and OXY/Fuel process. Instruction includes classroom lectures and demonstrations, as well as hands-on projects in a lab setting.

Program Outcomes

- Demonstrate proper welder use and safety
- Interpret welding blueprints and drawings
- Interpret weld symbols
- Demonstrate proper welding processes
- Demonstrate cutting process
- Demonstrate various weld transfers
- Select base metals with weld-ability
- Demonstrate weld and setup using GTAW
- Demonstrate weld and setup using GMAW
- Demonstrate proper GMAW wire selection
- Demonstrate proper fabrication layout
- Prepare student for welding certification

Required Courses

Number	Name	Credits	Term
CADE 1468*	Solidworks I	3	
INMG 1400	Intro to Manufacturing Technology	4	
WLDG 1560	Gas Metal Arc Welding I	3	
WLDG 1500*	Blueprint Reading for Welders	3	
WLDG 1520	Gas Tungsten Arc Welding I	3	
WLDG 1540	Shielded Metal Arc Welding I	3	
WLDG 1570*	Flux Cored Arc Welding I	3	
WLDG 1522*	Gas Tungsten Arc Welding II	3	
WLDG 1542*	Shielded Metal Arc Welding II	3	
WLDG 1562*	Gas Metal Arc Welding II	3	
WLDG 1564*	Gas Metal Arc Welding III	3	
WLDG 1572*	Flux Cored Arc Welding II	3	
WLDG 1524*	Gas Tungsten Arc Welding	3	
WLDG 1544*	Shielded Metal Arc Welding III	3	
WLDG 1590* or MTCC 1530*	Introduction to Robotic Welding or Water Jet Cutting Processes	2	
General Education Electives	Choose from at least 3 goals areas of the Minnesota Transfer Curriculum Goal Areas 1-10	15	
Total Credits		**60**	

*Requires a prerequisite or a concurrent course

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Pre-program Requirements

To begin your career in Welding, you need to be at a specific skill level in English/reading and mathematics.

English/Reading:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.

Mathematics:

- A score of 250 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit Course Placement (lsc.edu/course-placement) to find out more.

For interpretation of test results and selection of appropriate coursework;
or general information about the program, admissions, financial aid, and getting started at LSC,
contact the Professional Advising Team (advising@lsc.edu) or 218-733-7601

For specific information about the Welding AAS Degree, including course descriptions, course prerequisites, and potential career opportunities, see program website (https://www.lsc.edu/degrees/welding-aas/)

or

Contact Faculty Advisor Matthew Farchmin (matthew.farchmin@lsc.edu) at 218-733-6907

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